

Samuel P. Schofield

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EDUCATION

PH.D. APPLIED MATHEMATICS, The University of Arizona, May 2006
Thesis: "Dynamics of laminar jets in stratified fluids" GPA: 4.0/4.0

B.S. COMPUTER SCIENCE AND MATHEMATICS, New Mexico Tech, May 1999

EXPERIENCE

05/2008 - present Limited Term Technical Staff, Theoretical Division, **LANL**
04/2006 - 05/2008 Postdoctoral Research Associate, Theoretical Division, **LANL**
08/2000 - 05/2006 Graduate Student **The University of Arizona**
08/1999 - 04/2002 Software Engineer, **Honeywell International, Inc**

HONORS AND AWARDS

DOE Computational Science Graduate Fellowship, 2001-2005

RESEARCH INTERESTS

Computational fluid dynamics, interface methods, numerical methods for PDEs, spectral and spectral element methods.

RECENT PUBLICATIONS

S. P. Schofield, M. A. Christon, V. Dyadechko, R. V. Garimella, R. B. Lowrie, B. K. Swartz. Multi-material incompressible flow simulation with the moment-of-fluid method. *International Journal for Numerical Methods in Fluids* DOI: 10.1002/fld.2108, 2009.

M. Kucharik, R. V. Garimella, S. P. Schofield, M. J. Shashkov. A comparative study of interface reconstruction methods for multi-material ALE simulations. *To Appear, J. of Computational Physics*

S. P. Schofield, R. V. Garimella, M. M. Francois, R. Loubere, A second-order accurate material-order-independent interface reconstruction technique for multi-material flow simulations. *J. of Computational Physics* **228**, pp. 731–745, 2009.

S.P. Schofield, R. V. Garimella, M. M. Francois, and R. Loubere. Material order independent interface reconstruction using power diagrams. *International Journal for Numerical Methods in Fluids* **56**(6):643 - 659, 2008